

Newton's First Law of Motion

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true. Write your answers in the spaces provided.

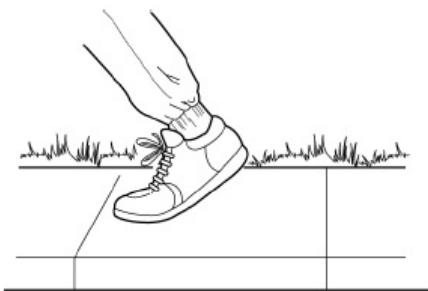
- _____ 1. Inertia is the tendency of an object to stay at rest or in motion.
- _____ 2. Balanced forces are needed to move a pencil across a desk.
- _____ 3. A chair will move by itself because of its inertia.
- _____ 4. Newton's first law of motion explains how inertia affects moving objects.
- _____ 5. In a car accident, a passenger not wearing a seat belt may crash through a windshield because of his or her inertia.
- _____ 6. A balanced force does not change the velocity of an object.
- _____ 7. An object will remain at rest unless a balanced force acts upon it.
- _____ 8. In baseball, inertia makes it easy for a baseball player to make sharp turns at the bases.

What is Newton's third law of motion?

Lesson Review

Label the **action force** and the **reaction force** in each of the following diagrams.

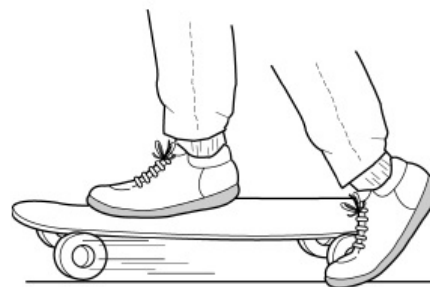
1.



Action force _____

Reaction force _____

2.



Action force _____

Reaction force _____

3.



Action force _____

Reaction force _____

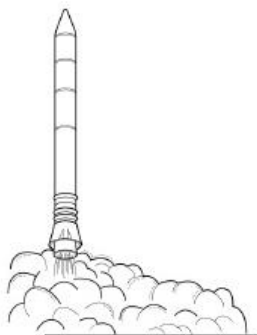
4.



Action force _____

Reaction force _____

5.



Action force _____

Reaction force _____

6.



Action force _____

Reaction force _____
